

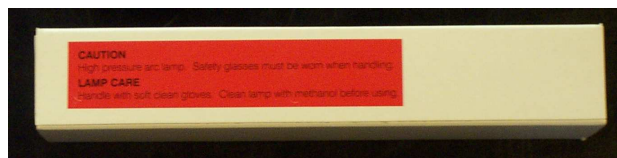
Correct lamp handling practice

Purpose

The purpose of this procedure is to define methods and good practice that should be used when handling flash and arc lamps.

Packaging

Lamps should arrive well packed, and undamaged. Before removing lamp from the packaging you should be wearing clean cotton gloves and safety glasses. Remove outer box, the lamp should be surrounded by foam. Remove the lamp gently from the foam, by opening the foam up and gently easing the lamp out. At all times the lamp must be handled with care, and supported evenly along its length.



Lamp Box



Foam packaging

Handling

The lamps must be supported at all times at both ends. This stops any excessive stress being placed on the seals. If a lamp is being handled by one end only, all the weight of the lamp is being placed on one seal. The lamp is not designed to take this, and this could lead to seal failures. If it is impossible to do this, when the lamp is being removed from the box, or if the lamp is being installed into a cavity, then the lamp needs to be supported along its length.

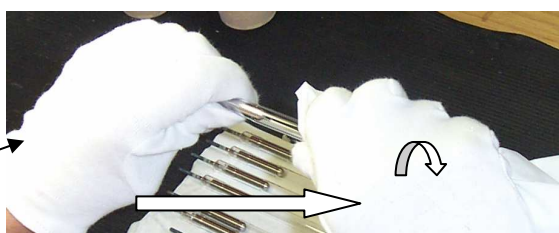


Lamp being well supported at both ends

Clean cotton gloves.

Cleaning

The lamp should be gently cleaned using methanol or Isopropanol alcohol, and a soft tissue. The lamps should be cleaned in one direction, and not in a back and forward motion, as this may scratch the quartz. At the same time as moving the tissue slowly along the length of the lamp, the lamp should be rotated. This practice stops the lamp making a high-pitched noise, which at the right frequency can damage the seal.



Lamp being cleaned one direction whilst being rotated.

Lamps are still being well supported.

Lead wires.

When handling lamps with lead wires, extra care must be taken. When bending the lead wires, stress can be placed on the joint and therefore directly on the seal. If the lead wires do require bending this should be done after the joint, and in such a way that the joint is supported



Lead wires being bent and the lamp being support

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